Bruhat Bangalore Mahanagara Palike

Excecutive Engineer Yelahanka Zone Project Division

Name of Work: Improvements to Roads and Drains in Hegdenagara and Surrounding Area in Ward No.06 Thanisandra

					Estimate Cost Rs.			150.00 Lakhs	
Sl No	**Description of Items**	**No**	**Length**	**Width**	**Depth**	**Quantity**	**Unit**	**Rate**	**Amount**
1	Removing & Refixing stone slabs of drains and pointing in C.M (1:3) (Page No 27., I.No.5.33 of KPWD S.R 2018-19).								
	Basic rate	105.00							
	6% AW	6.30							
	Sub Total	111.30							
	4th Cross	2	190.00	1.65		627.00			
	5th Cross	2	230.00	1.65		759.00			
						1386.00			
	consider 40%					**554.40**	**Sqm**	**111.30**	**61,704.7**
2	Earthwork in execavation for foundation of structure like culverts, retaining wall etc., as per drawing and technical specification, including setting out, construction of shoring and bracing, dressing of sides and bottom, back filling with approved material, disposal of balance earth as per specification, including cost of labour, HOM etc., complete. In all kinds of soil by manual means. (P.No.256, I.No.34.15.1 of PW,P&IWTD S.R 2018-19)								
	Basic rate	180.00							
	Area weightage 6%	10.80							
	Sub total	190.80							
	Lead 10 km	**82.60**							
	Total	**273.40**							
	Desilting								
	4th Cross	2	190.00	0.50	0.50	95.00			
	5th Cross	2	230.00	0.50	0.50	115.00			
	For Drain								
	1st Main 1st Cross								
	Near Shri Bhramalingeshwara Condiments	2	92.00	1.20	1.10	242.88			
	Near Venkateshwara provision Store	2	95.00	1.20	1.10	250.80			
	15th Cross								
	Near Venugopal house	1	50.20	1.50	1.20	90.36			
		1	47.00	1.20	1.10	62.04			
	Culverts	7	7.50	2.00	1.20	126.00			
	Platform Near Public Hospital	1	25.00	11.00	0.50	137.50			
	Near DWCC	1	15.00	9.00	0.50	67.50			
		1	18.00	3.00	0.50	27.00			
		1	11.00	4.50	0.50	24.75			
		1	20.00	9.00	0.50	90.00			
						1328.83	**Cum**	**273.40**	**363302.12**
3	Providing granite slabs of selected quality roughly dressed having a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete. I.No.5.31.1, Page no 27								

	Basic rate	700.00							
	Area weightage 6%	42.00							
	Total	**742.00**							
	missing/damaged					900.90			
						900.90	**Sqm**	**742.00**	**668467.80**
4	KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications, including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of modified proctors density. MORTH Specification No. 305 (P.No.147, I.No.19.60 of PW,P&IWTD S.R 2018-19)								
	Basic rate	325.00							
	Area weightage 6%	19.5							
	Sub total	344.50							
	Platform Near Public Hospital	1	25.00	11.00	0.25	68.75			
	Near DWCC	1	15.00	9.00	0.25	33.75			
		1	18.00	3.00	0.25	13.50			
		1	11.00	4.50	0.25	12.38			
		1	20.00	9.00	0.25	45.00			
						173.38	**Cum**	**344.50**	**59,727.69**
5	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications, MORTH specifications No. 408, (P.No.13, I.No.4-1.2 of PW,P&IWTD S.R 2018-19)								
	Basic rate	5194.00							
	Area weightage 6%	311.64							
	Total	**5505.64**							
	For Drain								
	1st Main 1st Cross								
	Near Shri Bhramalingeshwara Condiments	2	92.00	1.20	0.15	33.12			
	Near Venkateshwara provision Store	2	95.00	1.20	0.15	34.20			
	15th Cross								
	Near Venugopal house	1	50.20	1.50	0.15	11.30			
		1	47.00	1.20	0.15	8.46			
	Culverts	7	7.50	2.00	0.15	15.75			
	Ramp	14	7.70	1.00	0.15	16.17			
	Platform Near Public Hospital	1	25.00	11.00	0.15	41.25			
	Near DWCC	1	15.00	9.00	0.15	20.25			
		1	18.00	3.00	0.15	8.10			
		1	11.00	4.50	0.15	7.43			
		1	20.00	9.00	0.15	27.00			
	For Kerb Stone								
	1st Main 1st Cross								
	Near Shri Bhramalingeshwara Condiments	2	92.00	0.30	0.15	8.28			
	Near Venkateshwara provision Store	2	95.00	0.30	0.15	8.55			

	4th Cross	2	190.00	0.30	0.15	17.10			
	5th Cross	2	230.00	0.30	0.15	20.70			
	15th Cross								
	Near Venugopal house	1	90.00	0.30	0.15	4.05			
						281.70	**Cum**	**5505.64**	**1550938.7**
6	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6)								
	Basic rate	5422.00							
	6% AW	325.32							
	Sub Total	5747.32							
	For Flagging Course P.C.C								
	4th Cross	4	190.00	0.25	0.15	28.50			
	5th Cross	4	230.00	0.25	0.15	34.50			
	For Flagging Course Coping								
	4th Cross	4	190.00	0.20	0.10	15.20			
	5th Cross	4	230.00	0.20	0.10	18.40			
	For Kerb Stone								
	1st Main 1st Cross								
	Near Shri Bhramalingeshwara Condiments	2	92.00	0.30	0.10	5.52			
	Near Venkateshwara provision Store	2	95.00	0.30	0.10	5.70			
	4th Cross	2	190.00	0.30	0.10	11.40			
	5th Cross	2	230.00	0.30	0.10	13.80			
	15th Cross								
	Near Venugopal house	1	90.00	0.30	0.10	2.70			
						135.72	**Cum**	**5747.32**	**780026.27**
7	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 I.No.5.26.1, Page no 27								
	Basic rate	962.00							
	Area weightage 6%	57.72							
	Total	**1019.72**							
	Flagging Course								
	4th Cross	4	190.00		0.40	304.00			
	5th Cross	4	230.00		0.40	368.92			
						672.92	**Sqm**	**1019.72**	**686189.98**

8	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design Mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and ine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 (P.No.14, I.No.4.11 of PW, P&IWTD S.R 2018-19)								
	Basic rate	5659.00							
	Area weightage 6%	339.54							
	Total	**5998.54**							
	For Drain								
	1st Main 1st Cross								
	Near Shri Bhramalingeshwara Condiments								
	Bottom slab	2	92.00	1.10	0.15	30.36			
	Drain Walls	4	92.00	0.15	0.70	38.64			
	Near Venkateshwara provision Store								
	Bottom slab	2	95.00	1.10	0.15	31.35			
	Drain Walls	4	95.00	0.15	0.70	39.90			
	15th Cross								
	Near Venugopal house								
	Bottom slab	1	50.00	1.50	0.15	11.25			
		1	47.00	1.20	0.15	8.46			
	Drain Walls	2	50.00	0.20	1.00	20.00			
		2	47.00	0.15	0.70	9.87			
	Culverts								
	Bottom slab	7	7.50	1.60	0.20	16.80			
	Drain Walls	14	7.50	0.20	0.70	14.70			
	Culverts ramp	12	9.00	1.10	0.20	23.76			
	Platform Near Public Hospital	1	25.00	11.00	0.20	55.00			
	Near DWCC	1	15.00	9.00	0.20	27.00			
		1	18.00	3.00	0.20	10.80			
		1	11.00	4.50	0.20	9.90			
		1	20.00	9.00	0.20	36.00			
						383.79	**Cum**	**5998.54**	**2302179.67**
9	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (I No-4.31,P No-15)								
	Basic rate	358.00							
	Area weightage 6%	21.48							
	Total	**379.48**							
	For Drain								
	1st Main 1st Cross								
	Near Shri Bhramalingeshwara Condiments								

	Drain Walls	8	92.00		0.70	515.20			
	Near Venkateshwara provision Store								
	Drain Walls	8	95.00		0.70	532.00			
	15th Cross								
	Near Venugopal house								
	Drain Walls	4	50.00		1.00	200.00			
		4	47.00		0.70	131.60			
	Culverts								
	Drain Walls	28	7.50		0.70	147.00			
						1525.80	**Sqm**	**379.48**	**579010.58**
10	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Basic rate	69804.00							
	Area weightage 6%	4188.24							
	Total	**73992.24**							
	For Drain								
	65Kg/Cum of Concrete		179.96	65.00		11.70			
	For Culvert								
	95Kg/Cum of Concrete		31.50	100.00		3.15			
						14.85	**Tn**	**73992.24**	**1098592.38**
11	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Data rate	2337.00							
	For Drain								
	1st Main 1st Cross								
	Near Shri Bhramalingeshwara Condiments	2	92.00	0.90		165.60			
	Near Venkateshwara provision Store	2	95.00	0.90		171.00			
	15th Cross					0.00			
	Near Venugopal house	1	50.20	1.20		60.24			
		1	47.00	0.90		42.30			
	Flagging Course								
	4th Cross	2	190.00	0.90		342.00			
	5th Cross	2	230.00	0.90		414.00			
						1195.14	**Sqm**	**2337.00**	**2793042.18**
12	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								
	Data rate	5418.00							

	Culverts	7	7.50	1.50		78.75			
						78.75	**Sqm**	**5418.00**	**426667.50**
13	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. Item No 5.30, Page No.27								
	Basic rate	408.00							
	Area weightage 6%	24.48							
	Total	**432.48**							
	1st Main 1st Cross								
	Near Shri Bhramalingeshwara Condiments	2	92.00			184.00			
	Near Venkateshwara provision Store	2	95.00			190.00			
	15th Cross					0.00			
	Near Venugopal house	1	43.00			43.00			
		1	47.00			47.00			
	Flagging Course								
	4th Cross	2	190.00			380.00			
	5th Cross	2	230.00			460.00			
						1304.00			
						2898.00	**Nos**	**432.48**	**1253327.04**
14	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. I.No.15.80, Page No.124								
	Basic rate	37.00							
	Area weightage 6%	2.22							
	Total	**39.22**							
	1st Main 1st Cross								
	Near Shri Bhramalingeshwara Condiments	2	92.00		0.45	82.80			
	Near Venkateshwara provision Store	2	95.00		0.45	85.50			
	15th Cross					0.00			
	Near Venugopal house	1	43.00		0.45	19.35			
		1	47.00		0.45	21.15			
	Flagging Course								
	4th Cross	2	190.00		0.45	171.00			
	5th Cross	2	230.00		0.45	207.00			
						586.80	**Sqm**	**39.22**	**23,014.30**
15	KSRB 15-19.2 : Providing and applying spray painting in one coat (excluding priming coat) over concrete / masonry / asbestos cement sheet /plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. Item No 15.82, Page No.124								

	Basic rate	55.00							
	Area weightage 6%	3.30							
	Total	**58.30**							
	1st Main 1st Cross								
	Near Shri Bhramalingeshwara	2	92.00		0.45	82.80			
	Near Venkateshwara provision	2	95.00		0.45	85.50			
	15th Cross					0.00			
	Near Venugopal house	1	43.00		0.45	19.35			
		1	47.00		0.45	21.15			
	Flagging Course								
	4th Cross	2	190.00		0.45	171.00			
	5th Cross	2	230.00		0.45	207.00			
						586.80	**Sqm**	**58.30**	**34,210.44**
								Total Construction Cost	**12680401.46**
								4% KRIDL	**507216.06**
								12% GST	**1521648.17**
								DPR & PMC Charges	**290000.00**
								Sub Total	**14999265.69**
								Miscellaneous & Rounding off	**734.31**
								GRAND TOTAL	**15000000.00**

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019.and Data Rates

Assistant Engineer,
Yelahanka Project Division,
BBMP Bangalore

Asst. Exec. Engineer,
Yelahanka Project Division,
BBMP Bangalore

Executive Engineer, 7/12
Yelahanka Project Division,
BBMP Bangalore

Administrative Approval
Accorded For RS.150.00 lakhs
Head of A/C....P-1878
CER NO :....23.... Dt:07/12/2018
E.E. (Project) 7/12

Technical Sanction
Accorded For RS.150.00 lakhs
Head of A/C....P-1878
CER NO :....146.... Dt:07/12/18
TA
CE (YNK)